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(54) SYNTHESIZING METHOD OF HYDROCARBON AND ITS CATALYST

(57) Abstract:

PURPOSE: To produce hydrocarbons with high efficiency by pretreating catalyst layers of catalysts consisting of Co and La with the gaseous H₂ fed therein and feeding gaseous raw materials consisting of CO and H₂ thereto.

CONSTITUTION: Catalysts are composed of Co and

5W80wt% La based on the weight of the Co, and are deposited on diatomaceous earth, α -alumina, alumina- magnesia spinels, etc. These catalysts are pretreated with the gaseous H₂ fed therein for 30minW8hr under the conditions of 300W400°C and $\leq 10\text{kg/cm}^2$ gaseous H₂ pressure. Raw material gases consisting of CO and H₂ are fed into said catalysts under 5W10kg/cm² reaction pressure at 200W300°C reaction temp. after the pretreatment, whereby hydrocarbons are synthesized.

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